

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property  
Organization  
International Bureau



(43) International Publication Date  
9 December 2004 (09.12.2004)

PCT

(10) International Publication Number  
WO 2004/106016 A3

(51) International Patent Classification<sup>7</sup>: B26D 1/14, 3/08

(21) International Application Number:

PCT/US2004/016600

(22) International Filing Date: 26 May 2004 (26.05.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:  
60/473,594 27 May 2003 (27.05.2003) US

(71) Applicant (for all designated States except US): NORTH AMERICAN PRODUCTS CORPORATION [US/US]; 1180 Wernsing Road, P.O. Box 647, Jasper, IN 47547-0647 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): MUNCH, Bradford, J. [US/US]; 740 East State Road 56, Jasper, IN 47546 (US). SEGAL, John, M. [US/US]; 1325 Altmeyer Road, Jasper, IN 47546 (US).

(74) Agent: COFFEY, William, R.; Barnes & Thornburg, 11 South Meridian Street, Indianapolis, IN 46204 (US).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

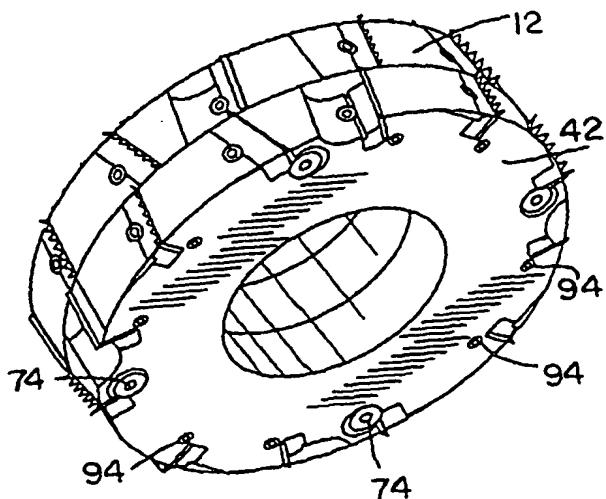
- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

(88) Date of publication of the international search report:  
27 January 2005

{Continued on next page}

(54) Title: DRIVE BELT CUTTER ASSEMBLY

(57) Abstract: A plurality of cutter tools (12) are arranged to provide a cutter assembly (10), each cutter tool (12) being configured to hold replaceable cutter blades (14). The cutter blades (14) cooperate to cut a groove in a rubber material.





*For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*

# INTERNATIONAL SEARCH REPORT

International application No.

PCT/US04/16600

## A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : B26D 1/14, 3/08  
US CL : 83/876, 698.41, 935, 676

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)  
U.S. : Please See Continuation Sheet

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 6,095,210 A (PARKS) 01 August 2000 (01.12.2000), See column 2, lines 60-67.	2
Y	US 5,857,506 A (PAOLONE) 12 January 1999 (12.01.1999), See column 4, lines 24-55.	6
X	US 4,534,687 A (HETZ) 13 August 1985 (13.08.1985), See column 3, lines 45-65, column 4, lines 1-45.	1, 5, 7, 17, 20
---		-----
Y		2, 6
A	US 1,908,628 A (REDINGER) 09 May 1933 (09.05.1933), See column 1, lines 30-50.	1-54

Further documents are listed in the continuation of Box C.  See patent family annex.

* Special categories of cited documents:	"T"	later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"A" document defining the general state of the art which is not considered to be of particular relevance	"X"	document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"E" earlier application or patent published on or after the international filing date	"Y"	document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"&"	document member of the same patent family
"O" document referring to an oral disclosure, use, exhibition or other means		
"P" document published prior to the international filing date but later than the priority date claimed		

Date of the actual completion of the international search

28 October 2004 (28.10.2004)

Date of mailing of the international search report

07 DEC 2004

Name and mailing address of the ISA/US  
Mail Stop PCT, Attn: ISA/US  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, Virginia 22313-1450  
Facsimile No. (703) 305-3230

Authorized officer

Boyer D. Ashley

*Sharon A. Greene, Jr.*

Telephone No. 703-308-1148

**INTERNATIONAL SEARCH REPORT**

International application No.  
PCT/US04/16600

**Continuation of B. FIELDS SEARCHED Item 1:**

83/876, 698.41, 935, 676, 875, 877, 332-333, 840, 843, 849, 850, 660, 300, 425.3; 144/230; 156/138, 139, 142; 409/132, 166, 304, 305